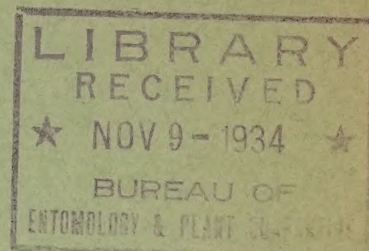


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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF CHEMISTRY AND SOILS
INSECTICIDE DIVISION

Patent List No. 24



A LIST OF
UNITED STATES PATENTS
Issued from 1917 to 1933 inclusive
relating to
APPARATUS FOR DESTROYING INSECTS BY HEAT
Compiled by
R. C. Roark

Washington, D. C.
September, 1934

A LIST OF UNITED STATES PATENTS ISSUED FROM 1917 TO 1933, INCLUSIVE,
RELATING TO APPARATUS FOR DESTROYING INSECTS BY HEAT

Compiled by
R. C. Roark
Insecticide Division, Bureau of Chemistry and Soils

The 18 devices included in this list relate mostly to machines designed to destroy boll weevil, grasshoppers, potato bugs or other agricultural insects by passing a heated roller over them or by scorching them with a flame. One apparatus kills insects in dried fruit by passing it through a heated revolving horizontal cylinder.

Every effort has been made by the compiler to make this list of patents complete and no discrimination is intended against any patent mention of which is inadvertently omitted.

The Department of Agriculture assumes no responsibility for the merits or workableness of any of the patents, nor does it recommend any of the inventions listed.

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1,229,236 (June 12, 1917; appl. Jan. 24, 1917). INSECT EX-TERMINATOR. Neal Cross, Ardmore, Okla. - One-half to Frank S. Gates, Ardmore, Okla. - Insects in dried peas, fruit, grain, etc., are killed by passing the material through a revolving horizontal cylinder heated by gas or gasoline burners.

1,255,131 (Feb. 5, 1918; appl. Aug. 13, 1917). INSECT DESTROYER. George W. Cameron, Hondo, Tex. - This machine knocks insects from cotton or potato plants on to the ground and then destroys them by passing an oil-fired incinerator over them.

1,351,407 (Aug. 31, 1920; appl. Dec. 16, 1919). INSECT DESTROYER. Daniel D. Smith, Valdosta, Ga. - Cotton and other insects on the surface of the ground are killed by passing over them rollers that are heated by gasoline burners. Reference is made to U. S. Patent 1,302,095 issued April 29, 1919 to D. D. Smith.

1,410,659 (Mar. 28, 1922; appl. Feb. 3, 1921). WEED BURNER. Isaac S. Corson, Great Falls, Mont. - Weeds, germs and other plant or animal life is destroyed by fuel oil burners mounted on a sled-like device.

1,419,900 (June 13, 1922; appl. Jan. 29, 1921). INSECT DESTROYER. John L. Franks, Winters, Tex. - This machine brushes boll weevils from plants and destroys them on the ground by heat from oil-fired burners.

1,433,885 (Oct. 31, 1922; appl. Oct. 24, 1921). INSECT EXTERMINATOR. James T. Fuller, Midlothian, Tex. - This machine drags a hood (under which a hot flame from an oil burner is maintained), over boll weevils on the ground.

1,436,958 (Nov. 28, 1922; appl. Oct. 14, 1921). INSECT EXTERMINATOR. Paul E. Hebert, Weatherford, Tex. - Insects on cotton plants are knocked off by dragging hanging chains over the foliage and are destroyed on the ground by flames from oil burners.

1,458,070 (June 5, 1923; appl. Jan. 24, 1922). INSECT EXTERMINATOR. Willis C. Long, Charlie P. Long and Joseph M. Stephens, Hastings, Okla. - Cotton and other insects on the surface of the ground are killed by flames from oil burners carried by a wheeled frame. Flames from burning vegetation are smothered by chains.

1,512,822 (Oct. 21, 1924; appl. Oct. 25, 1922). MACHINE FOR BURNING WEEDS AND THE LIKE. Rudolf Daering, Gros Ventre, Alberta, Canada. - This wheeled structure supports a number of oil burners for destroying weeds as well as locusts, grasshoppers and other insects.

1,515,476 (Nov. 11, 1924; appl. Feb. 18, 1922). WEED DESTROYER. John E. Greenfield, El Centro, Calif. - This machine directs a powerful blast of flame upon weeds growing in irrigation and drainage ditches.

1,530,681 (Mar. 24, 1925; appl. Jan. 20, 1923). INSECT DESTROYER. John A. Long, Fort Stockton, Tex. - This machine knocks boll weevils from plants and then subjects them to a flame or a poisonous vapor.

1,538,276 (May 19, 1925; appl. Oct. 29, 1923. Renewed Apr. 4, 1925). BOLL WEEVIL EXTERMINATOR. Jerome J. B. Dreesen, Jefferson, Tex. - This machine knocks boll weevils from plants and destroys them by fire from oil burners.

1,548,476 (Aug. 4, 1925; appl. Mar. 20, 1920. Renewed Dec. 31, 1924). INSECT DESTROYER. Everett C. Morrison, St. Louis, Mo. - This machine brushes boll weevils from plants and kills them on the ground by heat from oil burners.

1,571,481 (Feb. 2, 1926; appl. Jan. 14, 1925). INSECT DESTROYER. John Kosmeier, Beeville, Tex. - This machine throws the loose soil on freshly plowed ground into flames from oil burners in order to destroy all forms of insect life which may be in the soil.

1,580,297 (Apr. 13, 1926; appl. Apr. 19, 1924). INSECT EXTERMINATING APPARATUS. Robert E. Hammock, Dunklin County, Mo. - One-half to B. Frank Highfill, Hornersville, Mo. - This machine knocks boll weevils from plants into pans and incinerates them.

1,754,083 (Apr. 8, 1930; appl. May 10, 1929). INSECT EXTERMINATOR. Eustace R. Collins, Allen B. Eberhart and William A. Gillentine, Fort Worth, Tex. - This machine knocks boll weevils from plants and destroys them on the ground by flames from oil burners.

1,851,379 (Mar. 29, 1932; appl. Sept. 16, 1929). STUBBLE BURNER. Herbert Worthley, Marquis, Saskatchewan, Canada. - This machine directs flames from oil burners against stubble, locusts, grasshoppers and other insects.

1,921,901 (Aug. 8, 1933; appl. Apr. 4, 1932). INSECT DESTROYING DEVICE. Andrew X. Anderson, San Francisco, Calif. - A roller arrangement similar to a lawn roller is capable of supporting a blaze from burning oil while it is being rolled over a surface and this blaze destroys ants, etc.

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ASSIGNEE INDEX

(Numbers refer to patents cited)

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